For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the mandatory amendment format.

1.   (Currently Amended) A method comprising:

receiving input data of a sporting event;

processing said input data to generate positional data;

generating semantic information based on said positional data and game rules of said sporting event, said semantic information describing an officiating event <u>indicating a potential infraction of one or more rules of the sporting event</u>; and

transmitting said semantic information to a wireless officiating device possessed by an officiating entity of said sporting event, said transmitting to notify said officiating entity of said officiating event.

2.   (Canceled)

3.   (Previously Presented)   A method according to claim 1, wherein said sporting event is a soccer game.

4.   (Original)   A method according to claim 1, wherein said officiating entity is an event official.

5.   (Original)   A method according to claim 1, further comprising:

generating an event model from said positional data and said semantic information; and

storing said event model in an event model database.

6.   (Previously Presented)   A method according to claim 5, further comprising querying said event model database for said officiating event.

7.   (Original)   A method according to claim 1, further comprising generating an animation based on said positional data.

8.   (Previously Presented)   A method according to claim 7, further comprising transmitting said animation to said officiating device.

9.   (Original)   A method according to claim 1, further comprising transmitting said semantic information to an officiating interface.

10.   (Currently Amended) A system comprising:

an officiating data unit to generate officiating event data based on positional data and game rules of a sporting event, said officiating event data describing an officiating event indicating a potential infraction of one or more rules of said sporting event; and

a wireless officiating device to receive said officiating event data, said officiating device to notify an officiating entity of said officiating event.

11.   (Previously Presented)   The system of claim 10, wherein said officiating data unit comprises a tracking system to receive input data and generate said positional data from said input data.

12.   (Original)   The system of claim 11, wherein said officiating data unit comprises:

an event model generator to generate an event model from said positional data; and

an event model database to store said event model.

13.   (Previously Presented)   The system of claim 12, wherein said officiating data unit comprises:

an officiating data extractor to query said event model database for said officiating event data; and

an officiating interface to receive said officiating event data and transmit said officiating event data to said officiating device.

14.   (Original)   The system of claim 13, wherein said officiating interface receives officiating decision data from said officiating device.

15.   (Original)   The system of claim 14, wherein said event model includes said officiating decision data.

16.   (Original)   The system of claim 10, further comprising an event animation unit to generate an animation from said officiating event data.

17.   (Original)   The system of claim 16, further comprising an officiating interface to receive said animation and transmit said animation to said officiating device.

18.   (Original)   The system of claim 16, wherein said officiating device receives said animation.

19.   (Currently Amended) A machine-readable medium having stored thereon data

representing sequences of instructions, said sequences of instructions which, when

executed by a processor, cause said processor to:

receive input data of a sporting event;

process said input data to generate positional data;

generate semantic information based on said positional data and game rules of

said sporting event, wherein said semantic information describes an officiating event

indicating a potential infraction of one or more rules of the sporting event; and

transmit said semantic information to a wireless officiating device possessed by

an officiating entity of said sporting event, said transmitting to notify said officiating

entity of said officiating event.

20.   (Canceled)

21.   (Previously Presented)   The machine-readable medium of claim 19, wherein

said sporting event is a soccer game.

22.   (Original)   The machine-readable medium of claim 19, wherein said

officiating entity is a referee.

23.   (Original)   The machine-readable medium of claim 19, wherein said

sequences of instructions further cause said processor to:

generate an event model from said positional data and said semantic information;

and

store said event model in an event model database.

24. (Original) The machine-readable medium of claim 23, wherein said sequences of instructions further cause said processor to query said event model database for officiating event data.

25. (Original) The machine-readable medium of claim 19, wherein said sequences of instructions further cause said processor to generate an animation based on said positional data.

26. (Previously Presented) The machine-readable medium of claim 25, wherein said sequences of instructions further cause said processor to transmit said animation to said officiating device.

27. (Original) The machine-readable medium of claim 19, wherein said sequences of instructions further cause said processor to transmit said semantic information to an officiating interface.